Date: August 29, 2002 Observer(s): J. Dillon, J. Toman, N. Craft
Site Name: <u>Un-named Island, Coos County, Oregon</u>
Ownership: State of Oregon
 Location: Nearest City/Town: Empire, Oregon Bay/Estuary/Waterbody: Coos Bay Coordinates: Latitude N 43° 23′ 06″ Longitude W 124° 18′ 09″ Township, Range, Section: UTM Coordinates: Northing: 4804393.5 Easting: 394500.25 Zone: 10
• Size:
Total area of island or site: 0.4-0.8 ha (< 1-2 a)
Area of current/historical suitable habitat: None
Area of potential habitat: 0.2-0.4 ha (0.5-1.0 a)
 Distance from East Sand Island: 322 km (200 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
 Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Sand/silt Site stability: Stable
Topography and Site profile: Rises 1-4 feet above water level.
Comments: Area around island was too shallow to approach by boat; Stood on north shore; Heavy fog during visit; Bar-bell shaped island.

• Specific location, size, reproductive success of Caspian tern colony (if known): None	
 Colonial Nesting Waterbirds: Species Years of Occupancy Colony Size Distance from Caspian Telegraphics 	<u>rns</u>
Prey Base (describe general type and distance from colony): Salmonids, starry flounder, sardine, anchovy, smelt, shad	<u> </u>
State or Federal listed fish species potential prey? Yes or No Species: Coho salmon	
State or Federal listed wildlife/plants species associated with site: None on island	
Management issues:	_
Predators: Avian (species; known occupancy/use of site): Bald eagle (North Bay, Millicoma)	_
Mammalian (species; known occupancy/access to site): Raccoon, mink	<u> </u>
Disturbance (i.e. livestock, human, etc.): Boaters, ATV users on mainland.	
Comments:	
Site Management	
Management History: (describe) As far as anyone knows, this is a natural island.	<u> </u>
Current Management (describe): None	
• Management Potential (describe): The island is shaped like a bar-bell with high points on ear end. Area between the island and the northwest shore is very shallow. May actually conne mainland at low tide. Ownership of the island belongs to the State of Oregon. Clearing of end of the island would create a <0.5 acre area but access by predators would be pretty easy Large numbers of ATV users pass by the island less than 150 yards to the northwest. There be a potential for dredging between the mainland and the island and using the material to	ct to one

enlarge the island.



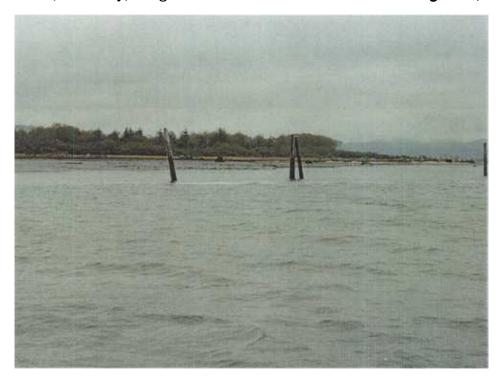
Southwest end of the island.



Northeast end of the island.

Date: August 29, 2002 Observer(s): J. Dillon, J. Toman, N. Craft
Site Name: "South" Island, Coos Bay, Coos County, Oregon
Ownership: Port of Coos Bay, Coos Bay
 Location: Nearest City/Town: Coos Bay, Oregon Bay/Estuary/Waterbody: Coos Bay Coordinates: Latitude N 43° 22′ 43″ Longitude W 124° 12′ 46″ Township, Range, Section: UTM Coordinates: Northing: 4803574.5 Easting: 401757.28 Zone: 10
Total area of island or site: 4.0-6.0 ha (< 10-15 a) Area of current/historical suitable habitat: None Area of potential habitat: 0.4-0.8 ha (1-2 a)
• Distance from East Sand Island: 320 km (199 mi)
• Aerial photo obtained? Y or N Date/Source of Aerial Photo:
• Type of site: Island Peninsula Lakeshore Rooftop Other
 Natural o Manmade ★ Site Photographs? Y or N Number Taken: 3 ground; 1 air Structures present (i.e. roads, buildings, power lines, piers, etc.)? Channel marker on west edge on mudflat.
• Vegetative communities (i.e. forb, grass, shrub, tree): <u>Trees (80%), Shrubs (10%), grass (10%)</u>
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): <u>Dredged material</u>
• Site stability: Stable
Topography and Site profile Rises 5-10 feet above water level.
Comments: Directly across from the island is Coos Bay. On the 4 th of July, fireworks are launched over the island.

Specific location, size, re	eproductive success of Caspian tern colony (if known)
 Colonial Nesting Watert Species 	pirds: <u>Years of Occupancy</u> <u>Colony Size</u> <u>Distance from Caspian Terns</u>
Prev Rase (describe general t	ype and distance from colony): Salmonids, starry flounder, sardine,
anchovy, smelt, shad	
	sh species potential prey? (Yes) or No
• State or Federal listed w	ildlife/plants species associated with site: None on island
Management issues	
• Predators: Avian (species; known of	occupancy/use of site): Bald eagle (North Bay, Millicoma)
Mammalian (species;	known occupancy/access to site): Raccoon, mink
• Disturbance (i.e. livestock, h	numan, etc. Boaters
Comments:	
********	**************************************
Management History (des	scribe): Placement of dredge material (none since 1990).
Current Management (de	scribe): None
Vegetation could be clear of the island belongs to t island. Every 4 th of July Island is nearly surround	describe): Heavy vegetation covers a large proportion of the island. ared back to create a nesting area a couple of acres in size. Ownership the Corp of Engineers. Heavy boat traffic passes to the west of the coos Bay sets off fireworks over the island from the old dock area. Led by a large expanse of tidal marsh. Due to the heavy vegetation, reworks, this area does not have a very high potential for Caspian tern

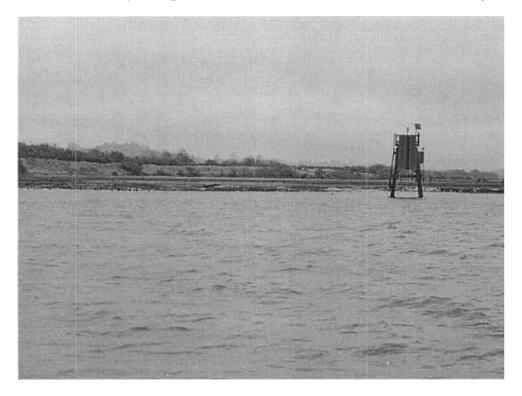


Picture taken from west side of island.



West side of island is toward the lower left corner.

• Specifi	c locatio	on, size, rep	oroductive s	success of (Caspian tern co	olony (if known):
		ng Waterbi		_		
Species	3		Years of C	<u>Jecupancy</u>	Colony Size	Distance from Caspian Terns
•				• •	•	starry flounder, sardine,
			-	tential prey	• •	No
• State or	r Federa		, *	•		ite: None on island
Manage	ement is					
• Predato		ies; known oc	cupancy/use of	site): <u>Bal</u>	d eagle (North	Bay, Millicoma)
M	ammalia	n (species; kı	own occupanc	y/access to site): Raccoon,	mink
• Disturb	ance (i.e	. livestock, hu	man, etc.): <u>B</u>	oaters		
*****	****	*****		******** ite Mana		*******
• Manage	ement H	istory (desc			_	(none since 1990).
• Curren	t Manag	ement (desc	ribe): <u>None</u>)		
Vegeta of the i island. Due to	tion cou sland be Every 4 the heav	ld be clear longs to th th of July,	ed back to de Corp of E Coos Bay son, heavy b	create a nes Engineers. I ets off firev	ting area a cou Heavy boat tra vorks over the	ge proportion of the island. uple of acres in size. Ownership offic passes to the west of the island from the old dock area. this area does not have a very



Picture taken from west side of island.



West side of island is toward the lower left corner. (Photo taken July 19, 2002)

Date: August 29, 2002 Observer(s): J. Dillon, J. Toman, N. Craft
Site Name: "North" Island, Coos Bay, Coos County, Oregon
Ownership: Port of Coos Bay, Coos Bay
 Location: Nearest City/Town: Coos Bay, Oregon
Bay/Estuary/Waterbody: Coos Bay
• Coordinates: Latitude N 43° 24′ 10″ Longitude W 124° 12′ 57″
Township, Range, Section:
UTM Coordinates: Northing: 4806262.0 Easting: 401548.6 Zone: 10
• Size:
 Total area of island or site: 1.2-2.0 ha (< 3-5 a) Area of current/historical suitable habitat: None
Area of potential habitat: 0.4-0.8 ha (1-2 a)
• Distance from East Sand Island: 319 km (198 mi)
• Aerial photo obtained? Y or N Date/Source of Aerial Photo:

Site Description
• Type of site: Island Peninsula Lakeshore Rooftop Other
● Natural of Manmade ★ Site Photographs Y or N Number Taken: 1 ground; 2 air
2 Characterists in account (i) and in the last of the
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None
• Vegetative communities (i.e. forb, grass, shrub, tree): Trees (10%), Shrubs (30%), grass (60%)
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): <u>dredged material</u>
• Site stability: <u>Stable</u>
• Topography and Site profile: Rises 10-15 feet above water level.
Topography and Site profile. Rises 10-13 feet above water fever.
Comments: Directly across from the island is Coos Bay. On the 4th of July, fireworks are
lunched over the island.

• Specific location, s	size, reproductive success of Caspian tern colony (if known):
• Colonial Nesting V	
<u>Species</u>	Years of Occupancy Colony Size Distance from Caspian Terns
• Prey Base (describe ganchovy, smelt,	eneral type and distance from colony): Salmonids, starry flounder, sardine, shad
	ted fish species potential prey? Yes or No
• State or Federal list	ted wildlife/plants species associated with site: None on island
Management issue	s:
• Predators: Avian (species; k	known occupancy/use of site): Bald eagle (North Bay, Millicoma)
Mammalian (s	pecies; known occupancy/access to site): Raccoon, mink
• Disturbance (i.e. live	stock, human, etc.): Boaters
Comments:	
********	**************************************
 Management Histo 	ry (describe): Placement of dredge material (none since 1990)
Current Manageme	ent (describe): None
Vegetation could be of the island belong island. Every 4th or	ntial (describe): Heavy vegetation covers a large proportion of the island. The cleared back to create a nesting area a couple of acres in size. Ownership gs to the Corp of Engineers. Heavy boat traffic passes to the west of the f July, Coos Bay sets off fireworks over the island from the old dock area. The egetation, heavy boat traffic and fireworks, this area does not have a very Caspian tern use.



Northwest end of island.



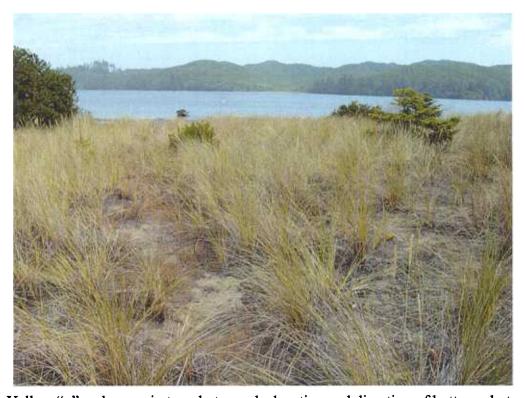
North end of the island.

Date: August 29, 2002 Observer(s): J. Dillon, J. Toman, N. Craft
Site Name: <u>Un-named Island, Umpqua River Estuary, Douglas County, Oregon</u>
Ownership: State of Oregon
 Location: Nearest City/Town: Winchester Bay, Oregon Bay/Estuary/Waterbody: Umpqua River Estuary Coordinates: Latitude N 43° 43′ 08″ Longitude W 124° 09′ 48″ Township, Range, Section: UTM Coordinates: Northing: 4841308.5 Easting: 406291.5 Zone: 10
• Size:
Total area of (sland) or site:
Area of current/historical suitable habitat: None
Area of potential habitat: 0.8-1.2 ha (2-3 a)
 Distance from East Sand Island: 283 km (176 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
·
Type of site Island Peninsula Lakeshore Rooftop Other
• Natural or Manmade? ★ Site Photographs Y or N Number Taken: 9 ground; 2 air
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None
• Vegetative communities (i.e. forb, grass, shrub, tree): <u>Trees (40%), shrubs (20%), grass (40%);</u> most of the trees are ringed around the edge of the island.
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Sand/silt
• Site stability: Stable
Topography and Site profile: Rises 1-8 feet above water level.
Comments: This island is part of a 89 ha (220 a) tax lot owned by the State of Oregon. A rough estimate of island acreage at the low tide mark is 12.3 ha (30.5 a) (Douglas County Planning Office, Coastal Planning, 541-440-4289).

Specific location,	size, reproductive success of Caspian tern colony (if known)
Colonial Nesting	Waterbirds:
Species	Years of Occupancy Colony Size Distance from Caspian Terns
Prey Base (describe anchovy, sme)	general type and distance from colony): Salmonids, starry flounder, sardine, t, shad
	sted fish species potential prey? Yes or No
State or Federal li	isted wildlife/plants species associated with site: None on island
Management issu	es:
Predators: Avian (species	; known occupancy/use of site): Bald eagle
Mammalian	(species; known occupancy/access to site): Raccoon
	vestock, human, etc.): Boaters, campers?
omments:	******************
	Site Management
Management His	tory (describe): Believed to be a natural island
Current Managen	nent (describe): None
This area has a hiringed by shorepi are comprised of natural, it appears the center. This i The Pacific ocear and most likely be process. There is	ential (describe): There has been no previous Caspian tern use of this island. gh potential for development for Caspian tern use. The island is generally ne (lodgepole) and Sitka spruce. The center of the island and the eastern edge a few scattered trees but mostly grass. Although people believe the island is a that the island was ringed in an earthen berm and material was left in piles in sland could easily be cleared of vegetation to form a Caspian tern nesting site is due west less than 1.5 miles. This island is within the saltwater influence elow the area where salmon smolts would go through the smoltification a water channel between the island and the mainland that may be filling with a dunes to the north. Ownership of the island belongs to the State of Oregon.



Aerial photo of the island from southeast side.



Yellow "x" and arrow in top photo marks location and direction of bottom photo.

Date: August 29, 2002 Observer(s): J. Dillon, J. Toman, N. Craft
Site Name: Steamboat Island, Umpqua River Estuary, Douglas County, Oregon
Ownership: Port of Umpqua, Reedsport
 Location: Nearest City/Town: Reedsport, Oregon Bay/Estuary/Waterbody: Umpua River Estuary Coordinates: Latitude N 43° 44′ 22″ Longitude W 124° 07′ 35″ Township, Range, Section: UTM Coordinates: Northing: 4843550.5 Easting: 409298.28 Zone: 10
• Size:
Total area of island of site: 1.2-2.0 ha (< 3-5 a)
Area of current/historical suitable habitat: None
Area of potential habitat: 0.4-0.8 ha (1-2 a)
 Distance from East Sand Island: 282 km (175 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo: ************************************
Site Description
• Type of site: Island Peninsula Lakeshore Rooftop Other • Natural or Manmade? ★ Site Photographs? Y or N Number Taken: 2 ground; 4 air
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None
Vegetative communities (i.e. forb, grass, shrub, tree): <u>Heavy scotch broom, blackberry, alder</u>
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Sand/silt
• Site stability: Stable
Topography and Site profile: Rises 6-10 feet above water level.
Comments: This area is the north end of the island. This area is fairly level but 6+ feet above water level. "Old growth" scotch broom is starting to fall apart. The island has been grazed by sheep in the past.

Specific location, size, reproductive success of Caspian tern colony (if known):	
Colonial Nesting Waterbirds: <u>Species</u> <u>Years of Occupancy Colony Size</u> <u>Distance from Caspian</u>	n Terns
Prey Base (describe general type and distance from colony): <u>Salmonids, starry flounder, sardine, anchovy, smelt, shad</u>	
State or Federal listed fish species potential prey? Yes or No Species: Coho salmon	
State or Federal listed wildlife/plants species associated with site: None on island	
Management issues:	
Predators: Avian (species; known occupancy/use of site): Bald eagle	
Mammalian (species; known occupancy/access to site): Raccoon	
Disturbance (i.e. livestock, human, etc.): Boaters, livestock (sheep in past but unknown toda	.y)
omments:	
Site Management	
Management History (describe): Sheep grazing.	
Current Management (describe): <u>Unknown</u>	
Management Potential (describe): There has been no previous Caspian tern use of this is Heavy vegetation covers the north end of the island. Vegetation could be cleared back a nesting area a couple of acres in size. Ownership of the island belongs to the Corps of Engineers? Overall size of the island is 20+ acres but much of this is tidally influenced	to creat of

island is directly across from the now closed timber mill.



Picture taken from west side of island.



West side of island is toward the lower left corner.

Date: August 30, 2002 Observer(s): J. Dillon
Site Name: Fern Ridge Reservoir, Lane County, Oregon
Ownership: Department of Defense, U.S. Army Corp of Engineers
 Location: Nearest City/Town: Eugene, Oregon Bay/Estuary/Waterbody: Fern Ridge Reservoir Coordinates: Latitude N 44° 04′ 14″ Longitude W 123° 16′ 01″ Township, Range, Section: UTM Coordinates: Northing: 4879744.0 Easting: 478623.3 Zone: 10
• Size:
Total area of island or site: Proposed plan
Area of current/historical suitable habitat: None
Area of potential habitat: Proposed 0.4 ha (1 a) island
 Distance from East Sand Island: 249 km (155 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
 Type of site: Island Peninsula Lakeshore Rooftop Other Yet to be made Natural or Manmade? ★ Site Photographs: Y or N Number Taken: 3 ground; 3 air Structures present (i.e. roads, buildings, power lines, piers, etc.)?
Vegetative communities (i.e. forb, grass, shrub, tree): <u>Freshwater marsh?</u>
Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Would be comprised of quarry waste, riprap, and sand.
• Site stability:
Topography and Site profile:
Comments: Information taken from a conceptual draft dated May 3, 2000 by the Corps of Engineers.

Colonial Nesting	Waterhirds:
Species Species	Years of Occupancy Colony Size Distance from Caspian Terns
•	e general type and distance from colony): <u>Carp, bullhead catfish, largemouth bass,</u> ite crappie, bluegill
	isted fish species potential prey? Yes or No Chinook salmon and steelhead
State or Federal 1	isted wildlife/plants species associated with site: None
Management issu	ies:
Predators: Avian (species	s; known occupancy/use of site): Bald eagle ?
Mammalian	(species; known occupancy/access to site): Raccoon, coyote
Disturbance (i.e. li	vestock, human, etc.): Boaters, fishermen
	onids are located ~9 miles to the east. ************************************
	Site Management
Management His	tory (describe): Nothing has been done to date
Current Manager	nent (describe): None
habitat exist at the centrarchids but straffic reaches the	ential (describe): Caspian terns use the reservoir during migration. No nesting is time. If the Corps creates an island, the main prey items would be salmonids occur in the Willamette and McKenzie rivers to the east. Little be is area and most of this is fishermen. Most of this area is shallow water. area belongs to the Corp of Engineers. A copy of the proposal is in the file



Area of proposed island development.



Aerial of Fern Ridge Reservoir (Yellow "x" marks location of top photo).

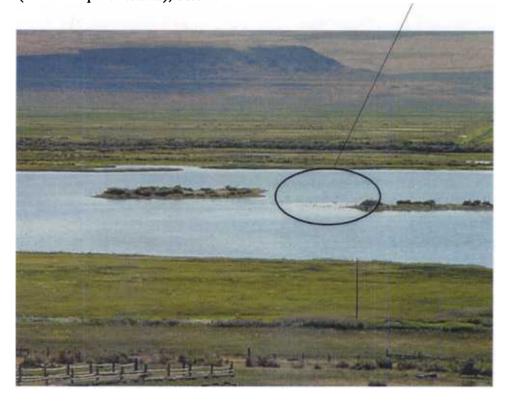
Date: July 16, 2002 Observer(s): N. Seto, Chris Carey
Site Name: Pelican Lake (2 islands with no name)/Crump Lake, Lake County, Oregon Ownership: Private (O'Keeffe and others) and State of Oregon
 Location: Nearest City/Town: Adel, Oregon Bay/Estuary/Waterbody: Warner Basin Coordinates: Latitude N 42° 12′ 07.7″ Longitude W 119° 53′ 38.2″ (Pelican Latitude) Township, Range, Section: UTM Coordinates: Northing: 4676253.5 Easting: 261084.08 Zone: 11
• Size: Total area of island or site:
 Distance from East Sand Island: ~ 460 km (286 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description (for Pelican Lake Islands only) • Type of site: Island Peninsula Lakeshore Rooftop Other
• Natural or Manmade? ★ Site Photographs? Y or N Number Taken:
Vegetative communities (i.e. forb, grass, shrub, tree): Shrubs, primarily greasewood
Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Compacted lakebed sediment
• Site stability: Semi-stable, shoreline stabilized in early 1990's to slow down erosion that was occurring (caused by wave, ice, and wind action).
Topography and Site profile: <u>relatively flat, with a rise of only 3 -4 feet.</u>

Comments: The two islands were probably one island historically. Caspian terns do not regularly nest on these islands. The historic colony nested on islands in Crump Lake. They are observed nesting in Pelican Lake when the islands in Crump Lake are covered by high water levels. Roosting birds were observed at the northern spit of the south island in Pelican Lake during this site visit. Water levels were high in Crump Lake and no island was visible. A small, sandy high spot in the lake was visible and 8-9 adult and young Caspian terns were observed loafing on the sand.

2002 because not surve	_	aspian tem co	lony (if known): Unknown for
Colonial Nesting Water	birds:		
Species Species	Years of Occupancy	Colony Size	Distance from Caspian Terns
California Gulls	??	??	Adjacent
Am. White Pelicans	??	??	Adjacent
Great Blue Herons	??	??	Adjacent
Prey Base (describe general	type and distance from colony):	Tui chul	o, Warner Basin red-band trout,
Warner sucker, large-m	outhed bass, croppie, bro	wn bowhead	
State or Federal listed f Species: Warner	ish species potential prey sucker	? (Yes) or	Ņo
State or Federal listed v	vildlife/plants species ass	sociated with si	te: None
Management issues:	None		
Predators:			
	Cull	la maggihly Don	acrina Falson (was raintrodused
· -	occupancy/use of site): Guil		egrine Falcon (was reintroduced
several years ago, i	out do not know whether	pan establishe	d territory)
Mammalian (species	; known occupancy/access to site	e): Coyotes	
Dicturbance (i.e. livestock	human ataly. The island a	re located 75 m	from the shoreline. Its privately
			of activity on the island by the
			nd grazing is allowed to the
shoreline.	Some numing does occ	ur in the area a	nd grazing is anowed to the
·	******	******	*******
	Site Mana	gement	
Management History (d the early 1990s to stabi		gement; rubble	was added along the shoreline in
Current Management (d	escribe): No management	activities knov	wn.
flood cycles of Pelican because there is no con- high quality Caspian ter for the birds that nest of are flooded. A larger of	Lake and adjacent Crumptrol over lake water level on nesting habitat. Insteant islands in Crump Lake	p Lake. No ma s. Thus, this si d, this site serv when high wat e provided by r	dependent on the drought and magement actions are possible te has low potential as stable, res as an alternative nesting site er levels occur and the islands removing some of the vegetation th south island.



Pelican Lake with view of both islands, above and possible nesting area (northern spit of island), below.



 Specific location, size, repossible juvenile observed 		Caspian tern col	ony (if known): ~ 5 pairs,
Colonial Nesting Water	birds:		
Species	Years of Occupancy	Colony Size	Distance from Caspian Terns
California gulls	~1980s	Hundreds	Adjacent
Ring-billed gulls	~1980s	~1,500	Adjacent
Am. white pelicans	??	8	Adjacent
Double-crested cormora	ants??	60	Adjacent
• Prey Base (describe general	type and distance from colony):	Tui chub, fin	gerling trout,
State or Federal listed fi Species: <u>Warner</u> terns.	sh species potential prey sucker in northend of St	? Yes or ate Wildlife A	No rea, but most likely not eaten by
• State or Federal listed w	vildlife/plants species ass	ociated with si	te: None
Management issues:	None		
• Predators:			
Avian (species; known	occupancy/use of site):Gull	s, raven	
			coon, mink, long-tailed weasel, island and have easy access in
low water years.			
• Disturbance (i.e. livestock,	human, etc.): <u>Very minima</u>	al. Vehicle acc	ess (to within 1 mile of the
island) is restricted duri	ng the breeding season;	foot access to t	he nesting island is not
prohibited but rarely oc			
*******	*****	*********	*********
	Site Mana	gement	
• Management History (d	escribe): No management.		
• Current Management (d	escribe): No managemen	t	
dramatically) dependen water by the Summer L	t on weather conditions a ake Irrigation District an of the island. Thus, this	and is also influ d Summer Lak	t fluctuate (sometimes very nenced by the use of Ana River e Wildlife Area. This site is otential as stable, high quality

Date: July 16, 2002 Observer(s): Rick Roy meeting with N. Seto
Site Name: Tern Island, Malheur Lake, Harney County, Oregon
Ownership: U.S. Fish and Wildlife Service
 Location: Nearest City/Town: Burns, Oregon Bay/Estuary/Waterbody: Malheur Lake Coordinates: Latitude ~ N43° 20′00" Longitude ~ W118° 40' 05" (estimated on map) Township, Range, Section: UTM Coordinates: Northing: 4799183 Easting: 364775.9 Zone 11
• Size:
• Total area of island or site: ~6 ha (~15 a)
• Area of current historical suitable habitat: 1.2 ha (3 a)
Area of potential habitat: Variable
 Distance from East Sand Island: ~511 km (318 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
 Type of site: Island Peninsula Lakeshore Rooftop Other Natural or Manmade?
Vegetative communities (i.e. forb, grass, shrub, tree): Pepperweed
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Sand, silt
• Site stability: Stable, island exposure depends on lake water levels. If water levels are low, island is connected to lake shoreline.
• Topography and Site profile: <u>Flat with a rise of 2 feet. Terns nested in sandy soils against low ridges of sand on the northern tip of island (highest part of island).</u>
Comments: Island first exposed in 1989; terns first nested on island (northern end) in 1990.
Lake was dry and island was connected to shoreline on day of site visit.

• Specific location, size, reproductive success of Caspian tern colony (if known): Adult birds were observed along the southern shoreline (not near Tern Island) but no nesting was confirmed in
2002. Lake almost completely dry and island was connected to lake shoreline by July.
 Colonial Nesting Waterbirds: Species Years of Occupancy Colony Size Distance from Caspian Terns
 Prey Base (describe general type and distance from colony): <u>Carp, red-band trout, red-sided shiner, tuichub. Since small size classes are necessary, prey availability is heavily dependent on the drought and flood cycle (small prey are not available during all years)</u> State or Federal listed fish species potential prey? Yes or No Species:
• State or Federal listed wildlife/plants species associated with site: None
Management issues:
Predators: Avian (species; known occupancy/use of site): Gulls Mammalian (species; known occupancy/access to site): Coyote when island connected to shoreline.
Disturbance (i.e. livestock, human, etc.): This island is within the Refuge boundaries and off limits to the public. Refuge activities that occur on the island include colonial waterbird and archaeological surveys.

Site Management
Management History (describe): No management.
Current Management (describe): No management.
• Management Potential: This site is highly variable and heavily dependent on the drought and flood cycles of the lake. Water levels within the lake not only affect island exposure (too much or too little) but also Caspian tern food resources. No management actions are possible because the Refuge has no control over lake water levels. Thus, this site has low potential as stable, high quality Caspian tern nesting habitat. Instead, this site serves as opportunistic nesting area during good water levels.



North end of island, historic Caspian tern nesting area.

Date: June 18, 2002 Observer(s): B. Henry via phone call with J. Dillon
Site Name: Anaho Island National Wildlife Refuge, Washoe County, Nevada
Ownership: Department of Interior, U.S. Fish and Wildlife Service
 Location: Nearest City/Town:Sutcliffe, Nevada Bay/Estuary/Waterbody:Pyramid Lake Coordinates: Latitude N 39° 57′ 12"Longitude W 119° 30′ 48"
• Township, Range, Section:
• GPS Coordinates: <u>Northing: 4425603.0 Easting: 285304.2</u>
• Size:
Total area of island or site: 303.5 ha (750 a)
Area of current/historical suitable habitat: 100-200 ha (250-500 a)
Area of potential habitat: Same as above
• Distance from East Sand Island: 790 km (490 mi)
• Aerial photo obtained? Y or (N) Date/Source of Aerial Photo:

Site Description
Type of site: Island Peninsula Lakeshore Rooftop Other
Natural or Manmade? ★ Site Photographs Y or N Number Taken:1
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None in historical or potential sites
Vegetative communities (i.e. forb, grass, shrub, tree): <u>Greasewood, shadscale, salt bush, cheatgrass</u> red brome, salt grass
Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Sand/gravel/rock
• Site stability: Stable
• Topography and Site profile: Rises to ~ 600 feet above water level during an average water year.
Comments:

 Specific location, size, rep 2002; terns present 1995 	roductive success of C (90-95 pairs).	Caspian tern col	ony (if known): No terns in
Colonial Nesting Waterbir Species		G-1 G'	Distance Consider T
<u>Species</u> White pelican	Years of Occupancy	8-10,000	Distance from Caspian Terns
Double-crested cormorant	1997	350	
California gull	1997	1,250	
-	1997	80	
Caspian tern	1997	1	
Prey Base (describe general type Lahotan cutthroat trout			rp (uncommon in lake),
State or Federal listed fish Species: Cui-ui, La		? Yes or	No
• State or Federal listed wild	llife/plants species ass	ociated with sit	e: None
Management issues:			
Avian (species; known occ Mammalian (species; known)			California gull
Disturbance (i.e. livestock, hun	nan, etc.): <u>Nest site (isl</u>	and) is in restri	cted area.
Comments: <u>Everything need</u>	•	•	pt reliable forage base.
	Site Manag	gement	
 Management History (description description) keeping people off the interest of the		anagement; mo	nitoring and working on
 Current Management (descr keeping people off the i 		nanagement; mo	onitoring and working on
habitat is available. Howe	ver, Refuge biologist l erns. It is not practical	believe that the	y nesting Caspian terns. Nesting prey base is the limiting factor for long-term use by Caspian

Anaho National Wildlife Refuge, Pyramid Lake, Nevada



Date: June 18, 2002 Observer(s): B. Henry via phone call with J. Dillon
Site Name: Stillwater National Wildlife Refuge, Churchill County, Nevada Ownership: Department of Interior, U.S. Fish and Wildlife Service
 Location: Nearest City/Town: Stillwater, Nevada Bay/Estuary/Waterbody: Stillwater Point Reservoir Coordinates: Latitude N 39° 31′ 30″ Longitude W 118° 31′ 20″ Township, Range, Section: GPS Coordinates: Northing: 4376097.5 Easting: 372029.7
• Size: • Total area of island or site:0.16 ha (0.43 a) Area of current historical suitable habitat:0.16 ha (0.43 a) Area of potential habitat:An island 0.16 ha (0.43 a)
 Distance from East Sand Island: 870 km (540 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo: ************************************
Site Description Type of site: Island Peninsula Lakeshore Rooftop Other Natural or Manmade? ★ Site Photographs Y or N Number Taken: Structures present (i.e. roads, buildings, power lines, piers, etc.)? None in historical or potential sites.
Vegetative communities (i.e. forb, grass, shrub, tree): Salt cedar (around land edge of island), Bull rushes (6-12 feet tall) ringed around island), center of island forb/grass component.
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Silt and mud
• Site stability: <u>Stable</u>
Topography and Site profile: Very gradual rise toward the center of the island.
Comments: <u>Island (potential nest site) created when Stillwater Point Reservoir developed.</u>

 Specific location, size, r 2002; terns present 19 		Caspian tern co	lony (if known): _	No terns in
Colonial Nesting Water				
Species Vater	Years of Occupancy	Colony Size	Distance from	Cosnion Torns
White-faced Ibis	1994-2002	715	Distance from	Caspian Terns
Cattle egret	1994-2002	53		
Bl-Crwn night-heron	1994-2002	18		
Snowy egret	1994-2002	37		
, ,	1994-2002	105		
• Prey Base (describe general t			water years, tui	chub and carn
	spand (primary prey spec			
mosquito fish and La				
State or Federal listed fi	sh species petantial prov	O Vos on I	5 5	
State or Federal listed fine Species:	sii species potentiai prey	? Yes or	No)	
 State or Federal listed w 	ildlifa/planta apacica aca	aniatad with ai	tas Nama	
• State of Pederal listed w	nume/piams species ass	ocialeu with si	ie: None	
Management issues:				

• Predators:				
	occupancy/use of site):Con	nmon ravens; p	otentially Califo	rnia gull.
Mammalian (species;	known occupancy/access to site	: Coyotes	· · · · · · · · · · · · · · · · · · ·	
• Distriction of the state of	S. D. 4 4 1	4 2 7 1 10		
• Disturbance (i.e. livestock, h	numan, etc.): Potential ne	st site (island)	s in restricted ar	ea.
Comments: <u>Caspian terns</u>	s only present during hig	h water years.		
*******	******	*****	*****	*****
	Site Manag	gement		
Management History (de-	scribe): No direct tern ma	anagement; ma	nage for fish por	oulations in
reservoir areas near S				
- C	NT 11		g g 1	1
• Current Management (de		anagement; ma	nage for fish por	oulations in
reservoir areas near S	tillwater, Nevada.			
Management Potential (continuity)	lescribe). The Stillwater Po	oint Reservoir	area is used by C	asnian terns
only during years follow	•			-
water area does not pron			_	-
climate which in turn co	-	•		
		-		

Stillwater Point Reservoir, Stillwater, Nevada



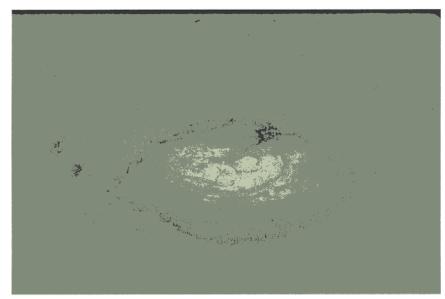
Date: June 18, 2002 Observer(s): B. Henry via phone call with J. Dillon
Site Name: Carson Sink, Churchill County, Nevada
Ownership: Department of Interior, U.S. Fish and Wildlife Service
• Location:
Nearest City/Town: Fallon, Nevada
Bay/Estuary/Waterbody: Playa lake Coordinates Letitude N. 20% 40/ 12// Bay/Estuary/Waterbody: Playa lake Out of the standard of th
• Coordinates: Latitude N 39° 49′ 12″ Longitude W 118° 28′ 48″
 Township, Range, Section: GPS Coordinates: Northing: 4408827 0 Fasting: 373333 72
• GPS Coordinates: <u>Northing: 4408827.0 Easting: 373333.72</u>
• Size:
Total area of island or site: 3 islands - see comment section below
Area of current/historical suitable habitat: all 3 islands
Area of potential habitat: <u>all 3 islands during high water levels</u>
and of potential matter. are a istance during might water levels
• Distance from East Sand Island: 845 km (525 mi)
• Aerial photo obtained? Y or (N) Date/Source of Aerial Photo:

Site Description
• Type of site: Island Peninsula Lakeshore Rooftop Other
◆ Natura or Manmade? ★ Site Photographs? Yor N Number Taken:1
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? <u>Tern Island SE has some old pipe</u> from an artesian well that sticks up above ground ~ 6-8 inches.
Vegetative communities (i.e. forb, grass, shrub, tree): No vegetation present
• Soil substrate (i.e. sand, gravel, silt, cobble, etc. Silt, sand
Site stability:Fairly stable; accretion and decrement occur regularly during dry years
• Topography and Site profile: All islands have a very gradual rise toward the center of the
islands (slightly domed).
Comments. Tem Island CW 0.041- (2.2-a) Tem Island CF 0.471- (1.2-a) Tem Island CF 0.471- (1.2-a) Tem Island CW 0.041- (1.2-a) Tem Island CF 0.471- (1.2-a) Tem Is
Comments: Tern Island SW - 0.94 ha (2.3 ac), Tern Island SE - 0.47 ha (1.2 a), Tern Island
N - 0.42 ha(1.0 a); the Humboldt River and Carson River terminate in the Carson Sink during
high water years (high snow pack), otherwise no water is present.

 Specific location, size, reproductive success of Caspian tern colony (if known): No terns in 2002; terns present 1983-86 and 1998-1999
 Colonial Nesting Waterbirds: Species Years of Occupancy Colony Size Distance from Caspian Terns
None in 2002
Prey Base (describe general type and distance from colony):
State or Federal listed fish species potential prey? Yes or No
• State or Federal listed wildlife/plants species associated with site: None
Management issues:
 Predators: Avian (species; known occupancy/use of site): <u>Common ravens; potentially California gull.</u> Mammalian (species; known occupancy/access to site): <u>Coyotes in low water years.</u>
Disturbance (i.e. livestock, human, etc.): Naval Air Station (Bravo 20) - 10 to 12 miles north; heavily used bombing range.
Comments: Birds only present during high water years; associated with population explosion of tui chub and carp.

Management History (describe): No direct tern management; manage for fish populations in ponded areas near Stillwater, Nevada.
• Current Management (describe): No direct tern management; manage for fish populations in
ponded areas near Stillwater, Nevada.
• Management Potential (describe): The Carson Sink area is used by Caspian terns only during years following a high snowpack in the Sierra Mountains. During other years, the nesting area is generally a dry alkaline flat. Caspian tern nesting is dependant upon the climate which in turn controls the prey base availability.

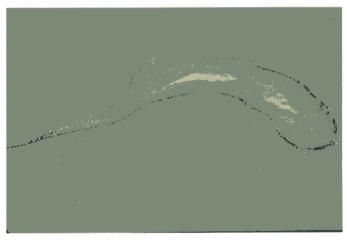
Carson Sink, Nevada



Tern Island Southeast



Tern Island North



Tern Island Southwest

Site Name: Unnamed Island, Mormon Reservoir, Camas Count Ownership: Irrigation District?	ty, Idaho
 Location: Nearest City/Town:Fairfield, Idaho Bay/Estuary/Waterbody:Mormon Reservoir Coordinates: Latitude N 43°16'00" Longitude W Township, Range, Section: UTM Coordinates:Northing: 4792707.5 Easting: 675 	
• Size: Total area offisland or site: 0.8 ha (2 a) Area of current historical suitable habitat: <.1 ha (600 sq. yd) Area of potential habitat: <.1 ha (600 sq. yd)	
 Distance from East Sand Island: ~1,086 km (~675 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo: _ 	
Site Description	
• Type of site: Island Peninsula Lakeshore Rooftop Other Natural or Manmade? ★ Site Photographs? Y or N Number	
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None	
• Vegetative communities (i.e. forb, grass, shrub, tree): Low forbs/grass; so can really grow because of the cormorant and gull nesting activity (a dead).	-
Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Rocky basalt	
Site stability: Water level affects whether the island becomes co	nnected to the mainland.
• Topography and Site profile: Oblong island that rises to 20 feet at reservoir.	the southwest corner of the
Comments: The island is located on the southwest edge of the reserve covered with the nesting gulls. Only a small area is available for nesting	

 Specific location, size, reproductive successobserved on June 12, 2002 (50% of which 	ss of Caspian tern colony (if known): 48 adults
observed on June 12, 2002 (30% of which	were raying down as it incubating).
• Colonial Nesting Waterbirds:	
	pancy Colony Size Distance from Caspian Terns
California gull ??	~10,000 pairs ??
Double-crested cormorant ??	~40 pairs ??
Black-crown night heron	No nesting confirmed
• Prey Base (describe general type and distance from c small size class	olony): Rainbow trout and Utah chub, carp if in
State or Federal listed fish species potential Species:	
• State or Federal listed wildlife/plants speci	es associated with site: None
Management issues None	
 Predators: Avian (species; known occupancy/use of site): 	Gulls, black-crowned night herons
Mammalian (species; known occupancy/acces connected to mainland).	ss to site): None known if site remains as island (not
Disturbance (i.e. livestock, human, etc.): Not misservoir. Camping is allowed on the opposite to the composite of the co	uch because island is in shallow area of the osite side of the reservoir but activity is minimal.
*********	************
Site M	Ianagement
Management History (describe): No management Management History (describe): No management History (desc	ement.
Current Management (describe): No manag	ement.
because this island is dominated by gulls. reservoir. If water levels drop low enough	Nesting habitat appears to be a limiting factor Nesting habitat is also limited by water levels in the a to connect the island to the mainland, mammalian arm colony and prey resources are limited. There are tat at this site.

Date: N/A Observer(s): No site visit, information gathered via phone con with Steve Bouffard
Site Name: Tern Island, Minidoka NWR, Cassia County, Idaho
Ownership: U.S. Fish and Wildlife
 Location: Nearest City/Town: Rupert, Idaho Bay/Estuary/Waterbody: Snake River, Lake Walcott Coordinates: Latitude N42°39.7' Longitude W 113°27.24' Township, Range, Section: UTM Coordinates: Northing: 4724859.5 Easting: 299169.97 Zone 12T
• Size:
Total area of sland or site: < .1 ha (200 - 300 sq. ft)
Area of current historical suitable habitat: < .1 ha (200 - 300 sq. ft)
Area of potential habitat: < .1 ha (200 - 300 sq. ft)
 Distance from East Sand Island: ~910 km (~566 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
 Type of site Island Peninsula Lakeshore Rooftop Other
● Vegetative communities (i.e. forb, grass, shrub, tree): None
• Soil substrate (i.e. sand, gravel, silt, cobble, etc. Rock
• Site stability: Stable
• Topography and Site profile: <u>Low rock island no more than 3 feet above high water and covered with boulders.</u>
Comments: No apparent nesting in 2002 because pelican and cormorant numbers have been increasing in the last 10 years. Since these species nest earlier than Caspian terns, their young
roost on Tern Island and appear to overwhelm any nesting terns.

• Specific location, size, reproductive success of nests, but not closely monitored. Nesting has	f Caspian tern colony (if known): Possibly 4-5 occurred in previous years.
 Colonial Nesting Waterbirds: <u>Species</u> <u>Years of Occupance</u> California gull Double-crested cormorant White pelican 	y <u>Colony Size</u> <u>Distance from Caspian Terns</u> Roosting only Immediately adjacent Roosting only Immediately adjacent Roosting only Immediately adjacent
Prey Base (describe general type and distance from colony	Sucker fish, small minnows, trout, carp
State or Federal listed fish species potential pr Species:	
• State or Federal listed wildlife/plants species a reservoir	
Management issues: Water quality and an i	nvasive snail species
• • • • • • • • • • • • • • • • • • • •	site): Since the island is small, there have not the island. If any do occur, raccoons would be
Disturbance (i.e. livestock, human, etc.): No public mile from the island. Pelican numbers are incappears to be disturbing to terns.	access and boating activity is restricted to 0.25 reasing and roosting activity on the island
Comments:	

Management History (describe): No management	
Current Management (describe): No management	ent;
 Management Potential: The current available island is increasingly being used by roosting p are observed in the reservoir every summer in nesting habitat include preventing pelicans and new islands on rock outcroppings near the exit 	elicans and cormorants. Adult Caspian terns low numbers. Options for increasing tern d cormorants from using the island or creating

	p:
Location	
•	Nearest City/Town: Aberdeen, Idaho
•	Bay/Estuary/Waterbody: American Falls Reservoir Coordinates: Latitude N 42°80'00" Longitude W 112°47'00"
•	Township, Range, Section:
•	UTM Coordinates: Northing: 4799376 Easting: 355430.3 Zone 12T
Size:	
	Total area of island or site: 6 ha (~14 a)
	Area of current historical suitable habitat: unknown
	Area of potential habitat: Unknown
Distance	ce from East Sand Island: ~1,158 km (~720 mi)
	photo obtained? Y or (N) Date/Source of Aerial Photo:
*****	********************************
	Site Description
Type o	f site: Island Peninsula Lakeshore Rooftop Other
-)	
Natura	or Manmade? ★ Site Photographs? Y or N Number Taken
Structu	res present (i.e. roads, buildings, power lines, piers, etc.)? None
Vegeta	tive communities (i.e. forb, grass, shrub, tree): Not much vegetation
Vogota	tivo communitios (i.e. 1616, grass, sinub, tiec).
Soil su	bstrate (i.e. sand, gravel, silt, cobble, etc.): Rocky basalt
N (1'44 -	1.774
Site sta	bility: Stable
Topogi	aphy and Site profile: Flat island
	s: The island is located on the west edge of the reservoir, near The Big Hole.
lasnian ta	erns have always been observed in the reservoir, but there has been no nesting
_	ed. 2002 is the first year of documented nesting activity.

• Specific location, size, reproductive success of Caspian tern colony (if known):
 ◆ Colonial Nesting Waterbirds: <u>Species</u> <u>Years of Occupancy</u> California gulls Colony Size Distance from Caspian Terns ??
• Prey Base (describe general type and distance from colony): Rainbow trout and Utah chub, carp if in small size class.
State or Federal listed fish species potential prey? Yes or No Species:
• State or Federal listed wildlife/plants species associated with site: None
Management issues: None
Avian (species; known occupancy/use of site):
Disturbance (i.e. livestock, human, etc.): None known
Comments:
Site Management
Management History (describe): No management.
Current Management (describe): No management
• Management Potential: The current available nesting habitat appears to be limited by water levels in the reservoir. If water levels drop low enough to connect the island to the mainland, mammalian predation almost certainly wipes out the tern colony and prey resources are limited. There are no options for increasing tern nesting habitat at this site.

Date: N/A Observer(s): No site visit, information gathered via phone con with Chuck Trost
Site Name: Gull Island, Blackfoot Reservoir, Caribou County, Idaho Ownership: ??
 Location: Nearest City/Town: Henry, Idaho Bay/Estuary/Waterbody: Blackfoot Reservoir Coordinates: Latitude N 42°65'00" Longitude W 111°68'00" Township, Range, Section:
• Size: Total area of island or site: 0.6 ha (~1.5 a) Area of current historical suitable habitat: < .1 ha (400 sq. m) Area of potential habitat < .1 ha (400 sq. m)
 Distance from East Sand Island: ~1,247 km (~775 mi) Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
• Type of site. Island Peninsula Lakeshore Rooftop Other
• Natural or Manmade? ★ Site Photographs? Y or N Number Taken:
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? A single goose nest platform
Vegetative communities (i.e. forb, grass, shrub, tree): Not much vegetation because of heavy pelican, gull, and cormorant use. Choke cherry and sage can be found along the edge.
• Soil substrate (i.e. sand, gravel, silt, cobble, etc.): Rocky basalt
• Site stability: Stable
• Topography and Site profile: <u>Large dome-shaped island rising to 150 feet high and isolated by deep water.</u> Northern end is flat and shallow (area where terms nest).
Comments: The island is located approximately 1 mile from the western shoreline.

- LOIONIAL NECTING WATERNITAGO	
 Colonial Nesting Waterbirds: Species Years of Occupancy 	Colony Size Distance from Caspian Terns
California gulls	~10,000 nests
	~100 nests
	nesting?
•	nesting?
	nesting?
<u> </u>	nesting?
 Prey Base (describe general type and distance from colony): small size class 	
State or Federal listed fish species potential prey? Species:	
 State or Federal listed wildlife/plants species asso 	ociated with site: None
	<u> </u>
Management issues: None	
Predators: Avian (species; known occupancy/use of site): heron	s, black-crowned night heron, great blue
mainland from low water levels. If island becomes	
mainland from low water levels. If island becomes	
Mammalian (species; known occupancy/access to site): Nonmainland from low water levels. If island becomes a potential predators. Disturbance (i.e. livestock, human, etc.): In the past, perhuman recreational activity is low in the reservoir	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently,
mainland from low water levels. If island becomes optential predators. • Disturbance (i.e. livestock, human, etc.): In the past, per	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently,
 mainland from low water levels. If island becomes optential predators. Disturbance (i.e. livestock, human, etc.): In the past, perhuman recreational activity is low in the reservoir 	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently,
mainland from low water levels. If island becomes optential predators. Disturbance (i.e. livestock, human, etc.): In the past, per human recreational activity is low in the reservoir Comments:	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently,
Disturbance (i.e. livestock, human, etc.): In the past, perhuman recreational activity is low in the reservoir Comments: ***********************************	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently,
mainland from low water levels. If island becomes optential predators. Disturbance (i.e. livestock, human, etc.): In the past, perhuman recreational activity is low in the reservoir Comments: ***********************************	connected, coyotes, raccoons, and mink are ople have landed on the island. Currently, ***********************************

limited. There are no options for increasing tern nesting habitat at this site.

Date: N/A Observer(s): No site visit, information gathered via phone con with Dick Sjostron
Site Name: Unnamed Island, Bear Lake NWR, Bear Lake County, Idaho
Ownership: U.S. Fish and Wildlife
• Location:
Nearest City/Town: Montpelier, Idaho New / Lake worth of Been Leke
 Bay/Estuary/Waterbody: Mud Lake, north of Bear Lake Coordinates: Latitude N 42°12'00" Longitude W 111°20'20"
 Coordinates: Latitude N 42°12'00" Longitude W 111°20'20" Township, Range, Section:
UTM Coordinates: Northing: 4672038 Easting: 472021.97 Zone 12T
1101 Cooldinates. 110120115. 1072050 Easting. 172021157 Edito 121
• Size:
Total area of island or site: < .1 ha (200 - 300 sq. ft)
Area of current historical suitable habitat: < .1 ha (200 - 300 sq. ft)
Area of potential habitat: < .1 ha (200 - 300 sq. ft)
• Distance from East Sand Island: ~1,086 km (~675 mi)
• Aerial photo obtained? Y or N Date/Source of Aerial Photo:
Site Description
• Type of site: Island Peninsula Lakeshore Rooftop Other
• Natural or Manmade? ★ Site Photographs? Y or (N) Number Taken:
2 Structures are sent (in the latter of the
• Structures present (i.e. roads, buildings, power lines, piers, etc.)? None
• Vegetative communities (i.e. forb, grass, shrub, tree): "Weed species," scattered weeds and not
much vegetation at all.
• Soil substrate (i.e. sand, gravel, silt, cobble, etc. Alkaline silt, soil
• Character like a Charle in aire and shows
Site stability: Stable in size and shape.
Topography and Site profile <u>flat, bare oval shaped island.</u>
Topography and one prome. Inad one o tar onapod totale.
Comments: No apparent nesting in 2002. Water levels are relatively stable in the lake.

	in 2002, highest count of 12-14 pairs in last 4-5 years.
	Colonial Nesting Waterbirds: Species Years of Occupancy Colony Size Distance from Caspian Terns California gull "decades" 4-500 ('02) ?? Double-crested cormorant "decades" 60 adults ('95) ??
	Prey Base (describe general type and distance from colony): Young carp, cutthroat trout, stunted birch and sunfish. Endemic fish species (Bonneville white fish and Bonneville cisco) in Bear Lake, but terns not believed to feed there. State or Federal listed fish species potential prey? Yes or No Species: State or Federal listed wildlife/plants species associated with site: None
	Management issues: None
•	Predators: Avian (species; known occupancy/use of site): Gulls
	Mammalian (species; known occupancy/access to site): Possibly mink or weasel, but they have to swim to the island. Other mammals present in the area include beaver, fox, coyote, raccoons, and skunks. There has been no direct evidence of predation documented and it appears as if the gulls are able to chase predators off the island.
•	Disturbance (i.e. livestock, human, etc.): None because island is within the refuge boundary and there is no public access.
	omments: ******************************
	Site Management
•	Management History (describe): Not much done; some logs were placed on the island to provide shade or roosting surface to attract pelicans. This was not successful as pelicans have not used the island.
•	Current Management (describe): No management.
•	Management Potential: The current available nesting habitat appears to be a limiting factor because this small island is also used by large numbers of gulls and cormorants. There are no options for increasing tern nesting habitat.